

Date: Sun, 12 Dec 93 04:30:19 PST
From: Ham-Ant Mailing List and Newsgroup <ham-ant@ucsd.edu>
Errors-To: Ham-Ant-Errors@UCSD.Edu
Reply-To: Ham-Ant@UCSD.Edu
Precedence: Bulk
Subject: Ham-Ant Digest V93 #140
To: Ham-Ant

Ham-Ant Digest Sun, 12 Dec 93 Volume 93 : Issue 140

Today's Topics:

 Mag North Vs True North (2 msgs)
 PI vs T Transmatch Circuits
 short sw antennae?
 T2FD antenna: any experiences? (2 msgs)

Send Replies or notes for publication to: <Ham-Ant@UCSD.Edu>
Send subscription requests to: <Ham-Ant-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Ant Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-ant".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Sat, 11 Dec 1993 16:04:30 GMT
From: library.ucla.edu!europa.eng.gtefsd.com!emory!kd4nc!ke4zv!
gary@network.ucsd.edu
Subject: Mag North Vs True North
To: ham-ant@ucsd.edu

In article <gregCHrqwz.1A3@netcom.com> greg@netcom.com (Greg Bullough) writes:
>

>And of course the related, but equally puzzling question; if everyone
>comes home at night and turns on their television at prime-time, does
>the signal get weaker in fringe areas because of the number of receivers
>which are now consuming more microvolts of signal close in?

Well I can tell you what our transmitter engineer says. He says that
the antenna current soars when our local news comes on because everyone
out there is changing the channel to another station. Our SM overheard
him telling the MC operator "She's gonna blow! The current's backing up
and I can't handle it. You've gotta put on better programming." And the
SM thought he was serious. He called the CE at home and asked him what

we could do about the problem. You don't want to know what the CE said to the transmitter engineer. :-)

Gary

--

Gary Coffman KE4ZV	I kill you,	gatech!wa4mei!ke4zv!gary
Destructive Testing Systems	You kill me,	uunet!rsiatl!ke4zv!gary
534 Shannon Way	We're the Manson Family	emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244	-sorry Barney	

Date: Thu, 9 Dec 1993 20:29:00 GMT
From: pravda.sdsc.edu!usc!howland.reston.ans.net!agate!headwall.Stanford.EDU!Csli!
paulf@network.ucsd.edu
Subject: Mag North Vs True North
To: ham-ant@ucsd.edu

greg@netcom.com (Greg Bullough) writes:

>And of course the related, but equally puzzling question; if everyone
>comes home at night and turns on their television at prime-time, does
>the signal get weaker in fringe areas because of the number of receivers
>which are now consuming more microvolts of signal close in?

My, what a helpful and informative posting. Yeah, right.

To answer the original question, no, the magnetic polar offset does not "skew" signals; your aim should be based on true north. Now, there are some negative effects on paths which cross the polar region, owing to the concentration of flux lines; in particular, geomagnetic storms have a nasty effect on polar paths.

--

-=>Paul Flaherty, N9FZX | "Fighter pilots make movies. Bomber pilots make
->paulf@Stanford.EDU | history." -- Jake Grafton

Date: Fri, 10 Dec 1993 05:31:40 GMT
From: sytex!jim@uunet.uu.net
Subject: PI vs T Transmatch Circuits
To: ham-ant@ucsd.edu

Does anyone have any insight into building a switch into a transmatch so that it is switchable from PI to T?

A friend of mine has a SWAN ST-1 antenna tuner that I am interested to buy. Only problem is that with my ridiculous indoor antenna situation (see below), I can't get it to load of 15 meters using the T circuit it comes built with.

Works fine on 15 if I rewire it to a PI, but then it won't handle 80 meters.

I'm considering putting a switch on the box and using it to switch between a PI and T configuration. Do THEY do that? Do I mess things up running the extra wires around in the box to make it possible?

My antenna is an indoor 40/20 meter dual center fed dipole. (how it snakes around the wall is a lovely site for apartment dwellers to see). Loads great with the Little MFG \$59 buck job. Since the MFJ isn't mine, but's on loan, I need to think about a replacement. Hence drolling over the SWAN, but I'll have to severely mod it.

Opinions anyone?

Jim -- AD4JE

jim@sytex.com (Jim Arnold)

Access <=> Internet BBS, a public access internet site

Sytex Communications, Arlington VA, 1-703-528-4380

Date: Wed, 8 Dec 1993 15:34:46 GMT

From: olivea!sgigate.sgi.com!sgiblab!swrinde!cs.utexas.edu!howland.reston.ans.net!
newsserver.jvnc.net!netnews.upenn.edu!netnews.noc.drexel.edu!dunx1.ocs.drexel.edu!
dunx1!st92ba44@decwrl.dec.com

Subject: short sw antennae?

To: ham-ant@ucsd.edu

hello there.

(excuse any ignorance, please). I was wondering how I'd go about shortening my antanna electronically. I've noticed that most of the short

antonio gatta

st92ba44@dunx1.ocs.drexel.edu

Date: Thu, 9 Dec 1993 21:29:33 GMT
From: walter!att-out!cbnewsj!k2ph@uunet.uu.net
Subject: T2FD antenna: any experiences?
To: ham-ant@ucsd.edu

Date: Thu, 9 Dec 1993 21:32:19 GMT
From: pravda.sdsc.edu!usc!math.ohio-state.edu!magnus.acs.ohio-state.edu!csn!
col.hp.com!srngenprp!alanb@network.ucsd.edu
Subject: T2FD antenna: any experiences?
To: ham-ant@ucsd.edu

Roger Traylor (rlt@ssd.intel.com) wrote:
: In the book: PRACTICAL WIRE ANTENNAS
: EFFECTIVE HF DESIGNS FOR THE RADIO AMATEUR
: John D. Heys G3BDQ
: Published by RSGB, 1991

: an antenna called "The Terminated Tilted Folded Dipole" (T2FD) is
: described. It is a non-resonant, vertically polarized antenna with a
: useful frequency ratio about 4:1.

: 300 ohm
: /\/\/\/\/\
: | B C |
: | | 1' 5" |
: | | |
: | A||D |
: ||
: ||
: 300 ohm twin lead

You can always get better bandwidth by including lossy resistance, but you have the disadvantage that you are throwing power away. You would get about the same effect by using a resonant antenna and an attenuator. Better to buy an antenna tuner and tune a non-resonant, lossless antenna to the band in use.

AL N1AL

Date: (null)
From: (null)

I tried this antenna a number of years ago. Dimensions were identical except for the 300 ohm terminating resistor. The article I had seen said to use 390 ohms for use with 300-ohm feed. I used a 6:1 balun from Palomar Engineers to bring it all down to 50 ohms.

It had a really low SWR on 15 meters only. Around 1.3 to 1 across the band. Terrible SWR everywhere else. So, I compared it to a half-wave dipole on 40 meters at the same height. The dipole was typically about 2 S-units better than the T2FD. I also compared it on 20-15-10 meters to a TA-33 at the same height. The 3-element tribander was typically about 6 S-units better than the T2FD.

I took down the T2FD and threw it in the garbage.

73,
Bob K2PH

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End of Ham-Ant Digest V93 #140

